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A BIBLIOGRAPHY OF AMERICAN NATURAL HISTORY

A Bibliography of

American Natural History

The Pioneer Century, 1769-1865

The Rôle Played by the Scientific Societies; Scientific Journals; Natural History Museums and Botanic Gardens; State Geological and Natural History Surveys; Federal Exploring Expeditions
IN THE RISE AND PROGRESS OF AMERICAN BOTANY, GEOLOGY, MINERALOGY, PALEONTOLOGY AND ZOOLOGY

BY

MAX MEISEL, B.S., B.L.S.
Formerly of the Science Division, N. Y. Public Library

VOLUME I

An Annotated Bibliography of the Publications Relating to the History, Biography and Bibliography of American Natural History and its Institutions, during Colonial Times and the Pioneer Century, which have been published up to 1924; with a Classified Subject and Geographic Index; and a Bibliography of Biographies.

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"It seems too unfortunate, that we should allow the value of the labors of our predecessors to be depreciated, or to refer to the naturalists of the last century as belonging to the unscientific or to the archaic period. It has been frequently said by naturalists that there was no science in America until after the beginning of the present century. This is in one sense true; in another very false. There were then, it is certain, many men equal in capacity, in culture, in enthusiasm, to the naturalists of to-day, who were giving careful attention to the study of precisely the same phenomena of nature. . . . Is it not incumbent upon workers in science to keep green the memory of those whose traditions we have inherited?"

GEORGE BROWN GOODE

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TO MY MOTHER

PREFACE

This work aims to trace bibliographically the rise and progress of natural history in the United States, from the formation of an active American Philosophical Society at Philadelphia in 1769, to the close of the Civil War in 1865. It purposes to show bibliographically the respective rôles played by the various individual institutions in the development and increase of knowledge in American botany, geology, mineralogy, palaeontology, and zoology, during this period, which may appropriately be called the Pioneer Century of American Natural History.

During this century the pioneers, individually and collectively, laid the foundations for the great achievements in American natural history with which we are so familiar to-day. The five chief and most effective agencies instrumental in the promotion and diffusion of this scientific knowledge were: the (1) Scientific Societies; (2) Scientific Journals; (3) State Geological and Natural History Surveys; (4) Natural History Museums and Botanic Gardens; (5) Federal Exploring Expeditions and Surveys.

In the Table of Contents are to be found the names of over two hundred and thirty (230) of these institutions, which have contributed directly and indirectly, in varying degrees, during the Pioneer Century, to the study and dissemination of natural history knowledge.

The Bibliography aims to record the natural history contents of the publications of nearly ninety societies; of twenty-five journals; of thirty-six state geological and natural history surveys; of fifteen natural history museums and botanic gardens, and of over seventy federal exploring expeditions and surveys.

In the publications of these institutions may be found the beginnings of the now numerous and distinct branches of natural history: mineralogy, botany, geology, palaeontology, embryology, comparative anatomy, physiology, microscopy, anthropology and ethnology, and zoology, with its various subordinate branches, conchology, entomology, herpetology, ichthyology, mammalogy, etc.

The work is divided into two principal parts which are designed briefly to give as follows: Part (A), Bibliographical material pertaining to the Pioneer Century and Colonial Times; Part (B), A Bibliographical Portrait of the Pioneer Century. The latter occupies the major portion of the book. Below the plan and content of each of these parts is given in detail.

Part A (Volume I)

This part consists of two sections, purely bibliographical, dealing with the historical, biographical and bibliographical aspects of these periods, with subject and geographic indexes to facilitate ready reference.

(1) An Annotated Bibliography of the Publications relating to the History, Biography and Bibliography of American Natural History and its Institutions, during Colonial Times and the Pioneer Century, which have been published up to 1924.

This contains over 700 titles, arranged alphabetically by author, with extensive subject and geographic indexes (a) and (b), and aims to include everything of importance in the history, collective biography, and bibliography of the branches of natural history enumerated above. Where titles pertain to institutions treated in this book (in (B)), cross-reference is made to same. Such annotations have been made as would indicate the scope, plan, arrangement and content of the work, unless already so indicated in the title itself. Throughout this work references are made to titles as, *e.g.*, see Beckwith, under Annotated Bibliography.

(a) The Classified Subject Index to the Annotated Bibliography. This aims to show at a glance the titles pertaining respectively to the Bibliography, Biography, and History of any of the sciences named above, as e.g., BOTANY: Bibliography; Biography; History. Catch titles, and the dates of the publication of the respective titles, are also given. A special section entitled Colonial Times comprehends the various titles referring to this period.

(b) The Geographic Index to the Annotated Bibliography. This shows what has been done in a particular community, state, city, etc., during this period, in the different sciences. It also contains dates of publication and catch titles.

(2) A Selected Bibliography of Biographies and Bibliographies of the Principal American Naturalists of the Pioneer Century and of Colonial Times.

This list contains nearly fifteen hundred titles relating to over six hundred names of active workers in one branch or other of natural history. For a number of workers it has been exceedingly difficult to find anything except the briefest notes, and for some others biographical matter does not appear to be readily available.

The compilations contained in both (1) and (2) are the result of a personal examination of the entire American scientific literature, and other likely sources of information. This examination of course yielded material for the various sections of Part (B), which have been incorporated in the appropriate places. I am especially indebted for assistance in this connec-

tion to the Card Catalogue of Biographies of Scientists in the Science and Technology Division of the New York Public Library, and to Dr. J. H. Barnhart's Card Catalogue of Biographies of Botanists. Special mention must be made of the printed catalogue cards of the Library of Congress.

Part B (Volumes II and III)

This part, the principal and most extensive in the book, takes up individually the contributions of those institutions which aided in the development of natural history during this period. For the history of natural history in America during Colonial Times, when there existed no definite organizations for the dissemination of natural history knowledge, see Dr. Goode's excellent essay (see under Annotated Bibliography: Goode (1)).

The sections comprising this part of the book are as follows:

(1) The Institutions Which Have Contributed to the Rise and Progress of American Natural History, which were founded or organized between 1769 and 1865, arranged chronologically by their respective dates of foundation.

The order in which these institutions are treated, will be found in the Table of Contents with the corresponding dates of foundation or organization. Over 230 of these institutions are dealt with. The material concerning each institution is divided as follows: (a) History; (b) Bibliography; (c) Reports; (d) Papers on Natural History. All the material of a specific institution from its foundation to 1865 (with such other bibliographical material published since, which may be of importance as covering this period), is thus to be found in one place. By consulting either the Table of Contents or the Index of Institutions, the location of the specific institution may be easily found.

Under the History, it is aimed to give briefly such facts as will give an idea of the organization, personnel, officers, activities, and subsequent history of an institution in its relation especially to natural history. Many of the organizations dealt with in this book were not primarily devoted to natural history, but contributed in an indirect way, either through a medium of publication, or by virtue of their make-up, to the furthering of natural history interests. Wherever and whenever possible, quotations from the publications of the organization concerned are employed in order to give an idea of the aims, spirit and atmosphere of the organization and its workers.

Under the Bibliography, it is intended to include such titles as will comprehend the history and publications of the Society, which do not appear under the following heads:

The Reports are applicable mainly to the Exploring Expeditions, the State Geological Surveys, and in some cases to the Societies. It is aimed, under this section, to give the contents of the Reports of these institutions, with references to other editions, whenever possible, and with especial reference to the natural history matter contained therein.

Under Papers on Natural History, will be found a chronological catalogue of the papers on natural history pertaining to that institution or to be found on its publications. Under the Scientific Societies, the papers are arranged chronologically under the date of reading, or when that is not possible, by the date of publication. The list is prefaced by an enumeration of the dates of the various parts of the organ or organs of publication of the institution in question. Where papers have been read before more than one society, cross references have been given.

In the cases of Scientific Journals, it is intended to show the natural history contents of each number, so that at a glance it is possible to determine whether any particular number contains any articles on natural history.

In the case of State Surveys and Exploring Expeditions, the Papers on Natural History include those titles which describe either the collections or the examinations made, but which have been published in places other than their own Reports. In the case of several important exploring expeditions, this list contains the only accessible scientific records, as Reports of an official character were never published. Notable instances of this are the Rodgers & Ringgold North Pacific Exploring Expedition (1853), and the Northwest Boundary Survey (1857). Reviews of important Papers, Reports, etc., are noted.

The method of cross-referencing between institutions is illustrated in the following examples. After a given entry, a reference such as this appears: "See also Long Expedition to the Rockies (1819);" or, "Rd (read) before Bost. Soc. Nat. Hist. (1830), Dec. 12, 1856. In its Proc. v. 6, p. 84–9." The date in parentheses indicates the date of foundation of the institution referred to, as, 1819, in which year the Long Expedition to the Rockies was sent out by the government; or, 1830, the year of the foundation of the Boston Society of Natural History. By consulting the Table of Contents under the respective dates, the location of more information concerning these institutions is to be found quite readily.

The outstanding institutions during the Pioneer Century, those which played the most prominent and successful parts in advancing and promoting the cause of natural history, were, with their corresponding dates of formation, the American Philosophical Society, at Philadelphia (1769); the Academy of Natural Sciences of Philadelphia (1812); the American

Journal of Science (1818); the Lyceum of Natural History of New York (1817); the Boston Society of Natural History (1830); Massachusetts Geological Survey (1830); Natural History Survey of New York (1836); Pennsylvania Geological Survey (1836); Smithsonian Institution (1846); American Association for the Advancement of Science (1848); Wilkes's U. S. Exploring Expedition (1838); Pacific Railroad Surveys (1853); Rodgers & Ringgold North Pacific Exploring Expedition (1853); American Academy of Arts & Sciences, Boston (1780); Essex Institute (1848).

The titles of several thousand papers on American natural history, contained in the publications of these and the other institutions, are to be found in this volume, in their proper places.

(2) A Bibliography of Books, Articles and Miscellaneous Publications Relating to American Natural History. This section contains titles not published in the Proceedings and Transactions of the scientific societies, the Reports of Exploring expeditions and geologic surveys, or in the scientific journals, enumerated under (1). It consists mainly of a catalogue of isolated books published by the authors themselves, without any institutional supervision or connection, and such articles or papers as appeared in obscure or not easily accessible medical, agricultural and in some instances foreign journals and newspapers.

It is divided into two parts, the first containing a list of books and papers published prior to 1769, and regarded as the publications of Colonial Times; the second, containing titles between 1769 and 1865, and representing the literature of the Pioneer Century.

In the first part have been recorded especially the papers published in the Philosophical Transactions of the Royal Society of London, one of the very few agencies for scientific publication available to the colonists in America.

Important reviews of books and pamphlets appearing in both lists have been noted, chiefly those appearing in the North American Review and the American Journal of Science.

The part dealing with colonial times contains about one hundred titles; while the part comprehending the Pioneer Century contains over one thousand titles.

(3) Chronological Tables of Publications, which exhibit the contemporaneity of the publications of the various institutions considered in the book, arranged by decades. A special table of abbreviations employed in these tables is given on the page preceding TABLE 1—1769–1779.

(4) An Index of Authors and Naturalists, arranged alphabetically, aims to show with what institutions an individual was connected. Consid-

erably over 2,500 names are contained in this list, a large number of whom were, strictly speaking, not active naturalists.

(5) An Index of Institutions, arranged alphabetically, to facilitate determination of the date of formation of a specific institution.

All material supplied by the author has been bracketed. The bibliographical data contained in this book have been given with few exceptions from the original sources, after personal examinations. All volumes are octavo in size unless otherwise indicated. A set of Tables of the principal abbreviations used in this work may be found on the pages succeeding the Table of Contents.

An asterisk before the name of an author in the body of the work (*i.e.*, Part B), denotes that he was not, strictly speaking, an American. In some cases where men have spent many years in scientific work in the United States, they have been regarded as Americans, but the line of demarcation is difficult to draw.

Many of the articles printed in American publications were often reprinted in foreign scientific journals. No attempt to check them has been made, as they are easily available through the use of the Royal Society Catalogue of Scientific Literature for 1800–1874 (see under Annotated Bibliography: Royal Society of London. Catalogue of Scientific Papers).

For facility in reference to those who have the serial set of U. S. Documents at hand, the serial numbers accompanying the various volumes of Documents have been cited, applicable especially to the Reports of Federal Exploring Expeditions and Surveys.

Constant reference has been made throughout this work to that great repository of scientific knowledge, especially valuable in connection with the early part of the nineteenth century, the American Journal of Science (1818), *q.v.*, which recently celebrated its centennial with the issue of a splendid volume reviewing in detail the achievements of American science in its various aspects, as comprehended within the pages of that Journal (see Annotated Bibliography: Century of Science in America). I have examined the Journal page by page (on two different occasions) from its inception in 1818 to 1867, and in this way have gathered the information relating to the history, bibliography, etc., of the less well-known institutions met with in this work. By referring to this Journal (*q.v.*, under 1818), there will be found the natural history contents of the first ninety volumes, showing what may be found in each number of the Journal issued, with the necessary bibliographical data.

Frequent reference has also been made to Dr. George P. Merrill's very admirable, and now classic "Contributions to a History of American Geology" (see Annotated Bibliography: Merrill, G. P. (1)), for criticisms

of geological surveys, the work of geologists, expeditions, etc.; in short, anything connected with the work of geologists, palaeontologists, and mineralogists in the United States.

My indebtedness is also very great to the extensive and invaluable researches of the late Dr. George Brown Goode, Assistant Secretary of the Smithsonian Institution, into the early history of American natural history, and American science and its institutions generally (see ANNOTATED BIBLIOGRAPHY: GOODE (1) to (7)).

Special mention should also be made of Darton's very useful "Bibliography of American Geology: 1732–1891 (see ANNOTATED BIBLIOGRAPHY: DARTON).

For brief accounts of the routes followed by the various exploring expeditions, reference has been made to Lt. G. K. Warren's excellent "Memoir . . . ," which constitutes v. 11 of the well-known Pacific Railroad Surveys (see WARREN, G. K., under the ANNOTATED BIBLIOGRAPHY). Miss A. R. Hasse's great series of "Indexes to the economic material of state documents" has been especially useful for its lists of state documents relating to the geological surveys of thirteen states (see ANNOTATED BIBLIOGRAPHY: HASSE (2)).

Particular attention should also be called to Dr. G. P. Merrill's "Contributions to a history of the state geological and natural history surveys," published in 1920. References have been made in the appropriate places to the comprehensive individual state histories contained therein (see ANNOTATED BIBLIOGRAPHY: MERRILL, G. P. (2)).

In fact, all the works constituting the ANNOTATED BIBLIOGRAPHY have been of use in the course of this work. In a certain sense, therefore, the purpose of this book has been to both complement and supplement such researches as those of Messrs. Goode, Merrill, Warren, Darton, etc.

This Bibliography had its origin in December, 1914, in suggestions made by my friend and former teacher, Prof. A. C. Goldfarb of the Biology Department of the College of the City of New York, and to those made by Dr. L. Hussakof, formerly curator of Ichthyology, the American Museum of Natural History. I take this opportunity of expressing my appreciation of their interest and assistance at various stages of the work.

In a partially completed form, it was submitted as a graduation requirement in June, 1916, to the New York State Library School, Albany, N. Y. To Mr. Walter Stanley Biscoe, senior librarian and bibliographer of the New York State Library, my debt is very great, for his generous assistance in outlining the work in its early days, and for the privilege of calling freely on his unrivalled store of bibliographical knowledge, and bibliographical methods.

Work on the Bibliography was continued while serving as a member of the Science Division of the New York Public Library, during 1916 and 1917. Owing to service with the U. S. Army and the American Library Association, further activity was suspended during 1918 and 1919.

Since February, 1920, the entire MSS. has been revised, all the titles verified, and numerous and extensive additions made. This re-examination, it is hoped, has reduced the errors to a minimum.

Research has been carried on mainly in the following libraries: the New York State Library, Albany, N. Y.; the New York Public Library; the Library of Congress (including the Smithsonian Deposit); the New York Botanical Garden Library; the American Museum of Natural History Library; the New York Academy of Medicine Library; the Library of the Museum of the Brooklyn Institute of Arts & Sciences; the Brooklyn Botanic Garden Library; the Boston Society of Natural History Library; the Yale and Harvard University Libraries; the Albany Art and Historical Society Library; and the Library of the Academy of Natural Sciences of Philadelphia. I take this occasion of thanking the directors and their associates of the institutions enumerated for the many courtesies extended.

To Dr. John Hendley Barnhart, the bibliographer, and former librarian of the New York Botanical Garden, I am profoundly grateful for the many kindnesses he has shown, for the very helpful advice in the preparation of parts of the MSS., and for placing at my beck and call his extraordinary bibliographical knowledge of botany and natural history generally. If botany is unusually well represented in this work, it is due to Dr. Barnhart's efforts to remind me of everything coming within the scope of the work.

During the course of nine years many have rendered assistance of one sort or another, and I wish to place on record my appreciation of these efforts. I have been favored with courtesies and information by the following: the Misses Dorothy and Frances Kellert; Miss Anne Axelroad; Mr. James I. Wyer, Jr., and Mr. Frank K. Walter, respectively, director and vice-director of the New York State Library School at Albany; Mr. Sidney and Miss Sadye C. Meisel (for the drudgery of proof-reading); Miss Mary Ellis; Mr. F. L. D. Goodrich; Miss Susan Hutchinson and Miss Ladd of the Brooklyn Museum; Miss Sarah H. Harlow, the librarian of the N. Y. Botanical Garden; Mrs. C. F. Norton of the Transylvania University Library, Lexington, Ky.; Mr. R. S. Fletcher, librarian at Amherst College; Mr. H. H. Ballard of the Pittsfield Athaenaeum; Mr. Andrew Keogh, librarian of Yale University; Dr. Paul M. Rea, lately director of the Charleston (S. C.) Museum; Mr. Bates, of the Connecticut Historical Society Library at Hartford; Miss Minnie Singer; Mr. William Beer; Mr. J. P.

Fowler; and the librarians of the following institutions: the Library of the Surgeon-General's Office; American Philosophical Society; the Worcester Lyceum of Natural History; Rhode Island Historical Society; Brown University; Utica Public Library; Hudson (N. Y.) and Newburgh (N. Y.) Public Libraries; Williams College Library; United Engineering Societies Library; Library of Columbia University; the Smithsonian Institution; the Wilmington Institute, Wilmington, Delaware; Little Rock Public Library; Arkansas State History Commission (Mr. Dallas Herndon); Pennsylvania College, Gettysburg, Pa. (Mr. Karl J. Grimm); Long Island Historical Society, Brooklyn, N. Y.; Kings County Medical Society, Brooklyn, N. Y.; Dr. Ralph W. Tower, librarian of the American Museum of Natural History; Dr. John M. Clarke, director of the N. Y. State Museum.

I am very grateful to the following for criticisms of various parts of the manuscript: Mr. H. M. Lydenberg, reference librarian, N. Y. Public Library; Mr. Charles Wenhold, of Brooklyn, N. Y.; Dr. Paul M. Rea, lately director of the Charleston Museum, now of the Cleveland Museum of Natural History; Miss Ray Simpson, librarian of the Brooklyn Botanic Garden.

This work of reference has been planned and produced with the varied and distinctive needs of the scientist, the librarian, the bibliographer, and the student, in mind. The work has been subjected to several revisions and the most painstaking care taken to reduce the errors and the omissions to a minimum.

In conclusion, if this bibliographical portrait or picture of the achievements of the pioneer institutions and the pioneer workers aids in disseminating a further knowledge of what has been accomplished during, and of what has been written about the Pioneer Century of Natural History in the United States, the object of the work will have been attained.

1593 President Street,
Brooklyn, New York

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PART A

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PART B

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THE INSTITUTIONS WHICH HAVE CONTRIBUTED TO THE RISE AND PROGRESS OF AMERICAN NATURAL HISTORY WHICH WERE FOUNDED OR ORGANIZED BETWEEN 1769 AND 1865, ARRANGED CHRONOLOGICALLY BY THEIR RESPECTIVE DATES OF FOUNDATION (as follows):

1769 American Philosophical Society, Philadelphia.

1773 Charleston (S. C.) Museum.

1780 American Academy of Arts & Sciences, Boston.

1784 Peale's Philadelphia Museum.

1787 University of the State of New York, Annual Reports of the Board of Regents.

1791 Society for the Promotion of Agriculture, Arts & Manufactures, New York City.

1793 Harvard College Mineralogical Cabinet, Cambridge.

1797 Medical Repository.

1798 American Mineralogical Society, New York City.

1799 Connecticut Academy of Arts & Sciences, New Haven.
East India Marine Society, Salem, Mass.

1801 Elgin Botanic Garden, New York City.

1802 Yale College Mineralogical Cabinet, New Haven.

1803 Sibley's Exploration of the Red River.

1804 Dunbar's Expedition to Louisiana.
Lewis and Clark Expedition.
New York Historical Society.
Philadelphia Medical & Physical Journal.
Society for the Promotion of Useful Arts, Albany.

1805 Cambridge (Mass.) Botanic Garden.
Charleston (S. C.) Botanic Garden & Society.
College of New Jersey (Princeton) Cabinet of Natural History.
Pike's Expeditions.

1806 Linnaean Society of Philadelphia.

1810 American Mineralogical Journal.
American Medical & Philosophical Register.

1812 Academy of Natural Sciences of Philadelphia.

1813 Literary & Philosophical Society of South Carolina, Charleston.
Pittsburg Chemical & Physiological Society.

1814 Linnaean Society of New England, Boston.
Literary & Philosophical Society of New York.

1816 Columbian Institute for the Promotion of Arts & Sciences, Washington, D. C.

1817 American Monthly Magazine & Critical Review.
Lyceum of Natural History of New York.
Washington Botanical Society.

1818 American Journal of Science.
Troy Lyceum of Natural History.
Western Museum Society, Cincinnati.

1819 American Geological Society, New Haven.
Hudson Association for Improvement in Science.
Long Expedition to the Rockies.

1820 Cass Expedition to the Great Lakes.
Catskill (N. Y.) Lyceum of Natural History.

1821 Delaware County Chemical & Geological Society, Delhi, N. Y.
Franklin Society of Providence.

1822 Amherst College Natural History Society and Cabinets, Amherst, Mass.
Maryland Academy of Science & Literature, Baltimore.
New York Medical & Physical Journal.
Western Quarterly Reporter of the Medical, Surgical & Natural Sciences.

1823 Albany Lyceum of Natural History.
Boston Journal of Philosophy & the Arts.
Long Expedition to the Sources of the St. Peter's.
Lyceum of Natural History, Berkshire Medical Institution, Pittsfield, Mass.
North Carolina Geological Surveys.
Newburgh Lyceum of Natural Sciences.
Utica Lyceum of Natural History.

1824 Albany Institute.
South Carolina Geological Surveys.
Transylvania University Botanical Garden, Lexington, Ky.

1825 Botanic Club of Washington, D. C.
Worcester Lyceum of Natural History.

1826 Chester County Cabinet of Natural Science, West Chester, Pa.
Maclurian Lyceum of Philadelphia.

1827 Delaware Academy of Natural Sciences, Wilmington, Delaware.
Western Journal of Medical & Physical Sciences.

1828 Transylvania Journal of Medicine & the Associate Sciences.

1830 Boston Society of Natural History.
Massachusetts Geological Surveys.

1831 American Botanical Register.
Monthly American Journal of Geology & Natural Science.
Schoolcraft's Expedition to the Indian Country.
Tennessee Geological Surveys.
Virginia Historical & Philosophical Society, Richmond.

1832 Antiquarian & Natural History Society of Arkansas, Little Rock.
Geological Society of Pennsylvania.
New York State Agricultural Society, Albany.
Schoolcraft & Allen's Expedition to the Source of the Mississippi.

1833 Delaware County Institute of Science, Media, Pa.
Essex County Natural History Society, Salem, Mass.
Maryland Geological Survey.
United States Naval Lyceum, Brooklyn, N. Y.

1834 Advocate of Science & Annals of Natural History.
Featherstonhaugh Survey of the Missouri & Red Rivers.
Yale Natural History Society.

1835 Connecticut Geological Survey.
Dodge Expedition to the Rockies.
Featherstonhaugh Survey of the Coteau de Prairie.
Magazine of Horticulture & Botany.
Natural History Society of Hartford, Conn.
New Jersey Geological Surveys.
Virginia Geological Surveys.
Western Academy of Natural Sciences, Cincinnati.
Williams College Lyceum of Natural History.

1836 Cuvierian or Natural History Society of Wesleyan University, Middletown, Conn.
Georgia Geological Survey.
Maine Geological Surveys.
Natural History Survey of New York.
Nicollet's Explorations of the Upper Mississippi.
Pennsylvania Geological Survey.
U. S. Commissioner of Patents. Agricultural Reports.
Western Academy of Natural Sciences, St. Louis.

1837 Delaware Geological Survey.
Harvard Natural History Society, Cambridge.
Indiana Geological Surveys.
Michigan Geological Surveys.
Ohio Geological Survey.
University of Michigan Natural History Museum, Ann Arbor.
Zoological & Botanical Survey of Massachusetts.

1838 Brooklyn, N. Y., Lyceum of Natural History.
Wilkes's U. S. Exploring Expedition.

1839 Agricultural, Horticultural & Botanical Society, Jefferson College, Mississippi.
New Hampshire Geological Surveys.
Owen's Survey of Iowa, Illinois & Wisconsin.
Rhode Island Geological Survey.

1840 Association of American Geologists & Naturalists.
National Institution for the Promotion of Science, Washington, D. C.
Natural History Society of Geneva, N. Y.

1841 Northern Academy of Arts & Sciences, Hanover, N. H.

1842 American Ethnological Society, New York City.
Botanical Society of Wilmington, Delaware.
Entomological Society of Pennsylvania, York, Pa.
Fremont's Expedition to the Missouri River & the Rocky Mountains.
Lynn Natural History Society, Lynn, Mass.

1843 Fremont's Expedition to Oregon & California.
Iowa Historical & Geological Institute, Burlington.
New York State Cabinet of Natural History, Albany, N. Y.
Portland (Maine) Society of Natural History.

1844 Allen's Expedition to the Des Moines & Blue Earth Rivers.
Linnaean Association of Pennsylvania College, Gettysburg, Pa.
Missouri Historical & Philosophical Society, Jefferson City, Mo.
Vermont Geological Surveys.

1845 Abert's Explorations of the Upper Arkansas.
American Journal of Agriculture & Science.
Cleveland Academy of Natural Sciences.
Fremont's Explorations in Upper California.

1846 Abert's Examinations of New Mexico.
Charleston Medical Journal and Review.
Concord (N. H.) Natural History Society.
Emory's Reconnaissance from Fort Leavenworth to San Diego.
Ohio Agricultural Reports.
Smithsonian Institution.
Wislizenus's Tour to Northern Mexico.

1847 Lynch's Dead Sea Expedition.
Owen's Chippewa Land District Survey of Wisconsin.
U. S. Survey of the Mineral Lands of Michigan, by Jackson.

1848 Alabama Geological Survey.
American Association for the Advancement of Science.
Essex Institute, Salem, Mass.
Owen's Survey of Wisconsin, Iowa & Minnesota.
United States & Mexican Boundary Survey.

1849 Foster & Whitney's Survey of the Lake Superior Land District.
Gilliss's U. S. Naval Astronomical Expedition to the Southern Hemisphere.
Marcy's Expedition from Fort Smith to Santa Fe.
Pope's Exploration of Minnesota.
Reconnaissances of Routes from San Antonio to El Paso.
Simpson's Survey of a Route between Fort Smith & Sante Fe & An Expedition to the Navajo Country.
Stansbury's Explorations of the Salt Lake Valley.
U. S. Surveys of California and Oregon.
U. S. Survey of the Creek Indian Boundary Line by Sitgreaves & Woodruff.

1850 Annual of Scientific Discovery.
Derby's Reconnaissances in California.
Mississippi State Geological Society.
Mississippi Geological Surveys.

1851 Herndon & Gibbon's Explorations of the Valley of the Amazon.
Illinois Geological Survey.
Lee's Dolphin Expedition.
Sitgreaves's Expedition down the Zuni & Colorado Rivers.
Society for the Advancement of Natural Sciences, Louisville, Ky.
Wisconsin State Agricultural Society.

1852 Annals of Science.
Kane's Expedition to the Arctic Regions.
Marcy's Exploration of the Red River.
National Botanic Garden, Washington, D. C.
Perry's U. S. Japan Expedition.

1853 California Academy of Natural Sciences, San Francisco.
California Geological Survey.
Elliott Society of Natural History, Charleston, S. C.
Florida Geological Survey.
Mining Magazine.
Missouri Geological Survey.
New Orleans Academy of Sciences.
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Pope's Explorations v. 2.
Stevens's Explorations v. 1 & 12.
Whipple's Explorations v. 3 & 4.
Williamson's Explorations v. 5 & 6.
Page's Exploration of the La Plata.
Rodgers & Ringgold U. S. North Pacific Exploring Expedition.
Wisconsin Geological Survey.

1854 Kentucky Geological Survey.
Marcy's Exploration of the Big Wichita.
Pottsville (Pa.) Scientific Association.

1855 Iowa Geological Survey.
Pope's Expedition along the 32d Parallel.
Warren's Sioux Expedition.
Wisconsin Natural History Association, Milwaukee.

1856 Academy of Science of St. Louis.
Bryan's Expedition from Fort Riley to Bridger's Pass.
Chicago Academy of Sciences.
Cincinnatus, (The).
Warren's Explorations in Nebraska & Dakota.

1857 Arkansas Geological Survey.
Ives Expedition up the Colorado.
Michler's Expedition to the Isthmus of Darien.
Northwest Boundary Survey.

1858 Illinois Natural History Society, Bloomington.
Mullan's Expedition from Fort Walla-Walla to Fort Benton on the Missouri River.

Potomac—Side Naturalists' Club, Washington, D. C.
Simpson's Utah Expedition.
Texas Geological Surveys.
Wyoming Historical & Geological Society, Wilkes-Barre, Pa.

1859 Entomological Society of Philadelphia.
Macomb Expedition to New Mexico, Utah & Colorado.
Minnesota Geological Surveys.
Museum of Comparative Zoology, Cambridge, Mass.
Raynolds's Exploration of the Yellowstone.
Springfield (Mass.) Museum of Natural History.
Wilmington Institute, Wilmington, Delaware.
Zoological Society of Philadelphia.

1860 Hall's Arctic Expeditions.
Hayes's Arctic Expeditions.
Isthmus of Chiriqui Expedition.

1861 Buffalo Society of Natural Sciences.

1862 Linnaean Society of Lancaster, Pa.
Ward Museum of Natural History, Rochester, N. Y.

1863 National Academy of Sciences.

1864 Harvard University Herbarium (Gray Herbarium).
Kansas Geological Survey.
Louisiana Geological Survey.

1865 American Journal of Conchology.
Nevada Geological Survey.

A Bibliography of the Books, Articles and Miscellaneous Publications Relating to American Natural History, not Published in the Proceedings and Transactions of the Scientific Societies, Reports of U. S. Exploring Expeditions and the State Geological Surveys, and the Scientific Journals Contained in the Body of this Work: In Two Parts:

Pt. I. 1590–1768.
Colonial Period (From the earliest days to the formation of an active American Philosophical Society at Philadelphia, in 1769).

Pt. II. 1769–1865.
Pioneer Century of American natural history.

Chronological Tables of the Publications of the Different Institutions Contained in this Work.
Tables by Decades. I–X.

Index of Authors and Naturalists.
Index of Institutions.

LISTS OF ABBREVIATIONS

1. GENERAL

A. ..... Annals
abstr. ..... abstract (s)
Acad. ..... Academy
acc. ..... accepted
Adv. ..... Advancement
Agric. ..... Agriculture
Amer. ..... American
Ann. ..... Annual
Annot. ..... Annotated
Anon. ..... Anonymous
appx. ..... appendix
art. ..... article (s)
Ass. ..... Assembly
Assoc. ..... Association
Astron. ..... Astronomical
Balt. ..... Baltimore
Bdry. ..... Boundary
Bib[liog]. ..... Bibliography
Biog[r]. ..... Biographical
Bost. ..... Boston
Bot. ..... Botany, Botanic
Bull. ..... Bulletin
Bur. ..... Bureau
C. ..... Contributions
Cab. ..... Cabinet
Cal. ..... California
Cat. ..... Catalogue
co. ..... company
Co. ..... County
col. ..... colored
Coll. ..... Collections
com. ..... communicated
Com. ..... Communications
Commiss. ..... Commissioner
Comp. ..... Comparative
Conch. ..... Conchology
Cong. ..... Congress
cont. ..... continued
Contr. ..... Contributions
corr. ..... corrected
Crit. ..... Critical
Dept. ..... Department
diagr. ..... diagrams
Dis. ..... Discourse
Linn. ..... Linnaean
Lit. ..... Literary, Literature
Lond. ..... London
Lyc. ..... Lyceum
M. ..... Memoirs
M. C. ..... Miscellaneous Collections
Mag. ..... Magazine
Manuf. ..... Manufactures
Med. ..... Medicine, Medical
Mem. ..... Memoirs
Min. ..... Mineralogy, Mineralogical
Misc. Coll. ..... Miscellaneous Collections
Mthly. ..... Monthly
Mus. ..... Museum
n. s. ..... new series
Nat. ..... Natural, National
no. ..... number (s)
Occas. ..... Occasional
Ornith. ..... Ornithology
p. ..... page (s)
P. ..... Proceedings
Pal. ..... Palaeontology
Pharm. ..... Pharmacy
Phil. ..... Philosophical
Phila. ..... Philadelphia
Phys. ..... Physical
pl. ..... plate (s)
port. ..... portrait (s)
pref. ..... preface
pres. ..... presented
print. ..... printing
Proc. ..... Proceedings
Prof. ..... Professional
Prom. ..... Promotion
pt. ..... part (s)
pub. ..... published
Pub. ..... Publication (s)
Quart. ..... Quarterly

Div. ..... Division
Doc. (s) ..... Document (s)
Econ. ..... Economic
ed. ..... edition (s), edited, editor
Educ. ..... Educational
Eng. ..... Engineers
Ent. ..... Entomology
enl. ..... enlarged
Ethnol. ..... Ethnology
Ex. ..... Executive
Exped. ..... Expedition
Exper. ..... Experiment
Explor. ..... Exploration (s)
Extr. ..... Extract (s)
fig. ..... figure (s)
fold. ..... folded
Gard. ..... Garden
Gaz. ..... Gazette
Geol. ..... Geology, Geological
Govt. ..... Government
H. ..... House
Hist. ..... History, Historical
Hort. ..... Horticulture, Horticultural
illus. ..... illustration (s)
Inst. ..... Institute, Institution
J. ..... Journal
Jour. ..... Journal
K. ..... Knowledge
R. ..... Report (s)
rd. ..... read
Reconn. ..... Reconnaissance (s)
Reg. ..... Register
Repos. ..... Repository
repr. ..... reprinted, Reprint
rev. ..... review
Rev. ..... Review
RR. ..... Railroad
S. C. ..... Smithsonian Contributions to Knowledge
Sc. ..... Science
sect. ..... section (s)
Sen. ..... Senate
ser. ..... series
sess. ..... session
Soc. ..... Society
St. ..... State
Stud. ..... Studies
supp. ..... supplement
Surg. ..... Surgery, Surgical
Surv. ..... Survey (s)
T. ..... Transactions
tab. ..... table (s)
Tech. ..... Technical
Topogr. ..... Topographical
Trans. ..... Transactions
Univ. ..... University
v. ..... volume (s)
Wash. ..... Washington
Zool. ..... Zoology, Zoological

2. OF INSTITUTIONS, SERIALS, ETC.

Acad. Nat. Sc. Phila. ..... Academy of Natural Sciences of Philadelphia
Acad. Sc. St. Louis ..... Academy of Science of St. Louis
Advocate Sc. & Annals Nat. Hist. ..... Advocate of Science & Annals of Natural History
Albany Inst. ..... Albany Institute
Albany Lyc. Nat. Hist. ..... Albany Lyceum of Natural History
Amer. Acad. A. & Sc. ..... American Academy of Arts & Sciences
Amer. Antiq. Soc. ..... American Antiquarian Society
Amer. Assoc. Adv. Sc. ..... American Association for the Advancement of Science
Amer. Assoc. Geol. & Nat. ..... American Association of Geologists & Naturalists

Amer. Assoc. Mus. ..... American Association of Museums
Amer. Bot. Reg. ..... American Botanical Register
Amer. Ethnol. Soc. ..... American Ethnological Society
Amer. Geol. ..... American Geologist
Amer. Geol. Soc. ..... American Geological Society
Amer. Inst. Mining Eng. ..... American Institute of Mining Engineers
Amer. J. Conch. ..... American Journal of Conchology
Amer. J. Sc. ..... American Journal of Science
Amer. Med. & Phil. Reg. ..... American Medical & Philosophical Register
Amer. Miner. J. ..... American Mineralogical Journal
Amer. Mthly. Mag. & Crit. Rev. ..... American Monthly Magazine & Critical Review
Amer. Phil. Soc. ..... American Philosophical Society
Amer. Quart. J. Agric. & Sc. ..... American Quarterly Journal of Agriculture & Science
Annals Sc. ..... Annals of Science
Assoc. Amer. Geol. & Nat. ..... Association of American Geologists & Naturalists
Biol. Soc. Wash. ..... Biological Society of Washington
Bost. J. Phil. & Arts. ..... Boston Journal of Philosophy & the Arts
Bost. Soc. Nat. Hist. ..... Boston Society of Natural History
Bot. Gaz. ..... Botanical Gazette
Buffalo Soc. Nat. Sc. ..... Buffalo Society of Natural Sciences
Cal. Acad. Nat. Sc. ..... California Academy of Natural Sciences
Cal. Geol. Surv. ..... California Geological Survey
Charleston Med. J. ..... Charleston (S. C.) Medical Journal
Chester Co. Cab. Nat. Sc. ..... Chester County Cabinet of Natural Sciences
Chicago Acad. Sc. ..... Chicago Academy of Sciences
Cleve. Acad. Nat. Sc. ..... Cleveland Academy of Natural Science
Columbian Inst. Prom. A. & Sc. ..... Columbian Institute for the Promotion of Arts & Sciences
Conn. Acad. A. & Sc. ..... Connecticut Academy of Arts & Sciences
Delaware Co. Inst. Sc. ..... Delaware Institute of Science
Elgin Bot. Gard. ..... Elgin Botanical Garden
Elliott Soc. Nat. Hist. ..... Elliott Society of Natural History
Ent. Soc. Phila. ..... Entomological Society of Philadelphia
Essex Co. Nat. Hist. Soc. ..... Essex County Natural History Society
Essex Inst. ..... Essex Institute
Geol. Soc. Amer. ..... Geological Society of America
Geol. Soc. Pa. ..... Geological Society of Pennsylvania
Harvard Nat. Hist. Soc. ..... Harvard Natural History Society
Illinois Nat. Hist. Soc. ..... Illinois Natural History Society
Jour. Geol. ..... Journal of Geology
Linn. Assoc. Pa. Coll. ..... Linnaean Association of Pennsylvania College
Linn. Soc. New England ..... Linnaean Society of New England
Linn. Soc. Phila. ..... Linnaean Society of Philadelphia
Lit. & Phil. Soc. N. Y. ..... Literary & Philosophical Society of New York
Lit. & Phil. Soc. S. C. ..... Literary & Philosophical Society of South Carolina
Maclurian Lyc. Phila. ..... Maclurian Lyceum of Philadelphia

Mag. Hort. & Bot.	Magazine of Horticulture & Botany
Maryland Acad. Sc. & Lit.	Maryland Academy of Science & Literature
Mass. Geol. Surv.	Massachusetts Geological Survey
Mass. Hort. Soc.	Massachusetts Horticultural Society
Med. Repos.	Medical Repository
Mining Mag.	Mining Magazine
Minn. Acad. Nat. Sc.	Minnesota Academy of Natural Sciences
Minn. Geol. & Nat. Hist. Surv.	Minnesota Geological & Natural History Survey
Mus. Comp. Zool.	Museum of Comparative Zoology
N. Y. Acad. Sc.	New York Academy of Sciences
N. Y. Bot. Gard.	New York Botanical Garden
N. Y. Hist. Soc.	New York Historical Society
N. Y. Lyc. Nat. Hist.	New York Lyceum of Natural History
N. Y. Med. & Phys. J.	New York Medical & Physical Journal
N. Y. St. Agric. Soc.	New York State Agricultural Society
N. Y. St. Cab. Nat. Hist.	New York State Cabinet of Natural History
Nat. Acad. Sc.	National Academy of Sciences
Nat. Cycl. Amer. Biog.	National Cyclopaedia of American Biography
Nat. Hist. Soc. Hartford	Natural History Society of Hartford
Nat. Hist. Surv. N. Y.	Natural History Survey of New York
Nat. Inst. Prom. Sc.	National Institution for the Promotion of Science
Pacific RR. Surv.	Pacific Railroad Surveys
Phil. Soc. Wash.	Philosophical Society of Washington
Phila. Acad. Nat. Sc.	Philadelphia Academy of Natural Sciences
Phila. Med. & Phys. J.	Philadelphia Medical & Physical Journal
Pittsfield Lyc. Nat. Hist.	Pittsfield Lyceum of Natural History (Berkshire Medical Institution)
Pop. Sc. Mthly.	Popular Science Monthly
Portland Soc. Nat. Hist.	Portland (Me.) Society of Natural History
Smith. Inst.	Smithsonian Institution
Soc. Prom. Agric. Arts & Manuf.	Society for the Promotion of Agriculture, Arts & Manufactures
Soc. Prom. Useful Arts	Society for the Promotion of Useful Arts
Transylvania J. Med. & Assoc. Sc.	Transylvania Journal of Medicine and the Associated Sciences
Troy Lyc. Nat. Hist.	Troy Lyceum of Natural History
U. S. & Mexican Bdry. Surv.	United States & Mexican Boundary Survey
U. S. Geol. Surv.	United States Geological Survey
Univ. Colo.	University of Colorado
Univ. St. N. Y.	University of the State of New York
Western J. Med. & Phys. Sc.	Western Journal of the Medical & Physical Sciences
Western Mus. Soc.	Western Museum Society
Yale Nat. Hist. Soc.	Yale Natural History Society
Zool. & Bot. Surv. Mass.	Zoological & Botanical Survey of Massachusetts
Zool. Soc. Phila.	Zoological Society of Philadelphia

AN ANNOTATED BIBLIOGRAPHY OF THE PUBLICATIONS RELATING TO THE HISTORY, BIOGRAPHY, AND BIBLIOGRAPHY OF AMERICAN NATURAL HISTORY AND ITS INSTITUTIONS, DURING COLONIAL TIMES AND THE PIONEER CENTURY, WHICH HAVE BEEN PUBLISHED UP TO 1924; WITH A CLASSIFIED SUBJECT AND GEOGRAPHIC INDEX

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v. 2 " —L–Z 702 p. 1917.
v. 3 Subject index [16] + 707 p. 1923.

(1) Titles of Pre-Linnaean publications, p. 204–338.
(2) General bibliographies which include references to fishes, p. 339–42.
(3) Voyages and expeditions which relate to fishes, p. 343–47.
(4) List of periodicals relating to fish & fish culture with the abbreviations herein used, p. 348–53.
(5) Addenda to titles contained in v. 1–2, p. 4–203.
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(2) ———— Bibliography of East coast fishes. Wash. 1873. (In Smith. Inst. Misc. Coll. v. 14, p. 37–44)

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(3) ———— Bibliography of the fishes of the Pacific coast of the United States to the end of the year 1879. Wash. 1882. 73 p. (In Smith. Inst. Misc. Coll. v. 23)

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Arranged under a number of general heads, and chronologically under these. Contains entries through 1874 inclusive.

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(2) ———— The floras of different countries. Cambridge, Mass., Library of Harvard Univ., 1879. 12 p. (In its Bibliog. Contrib. no. 9)

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(3) ———— Museum—history and museums of history. (In Amer. Hist. Assoc. Papers. v. 3, no. 2, p. 251–75. 1889)

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(4) ———— The origin of the national scientific and educational institutions of the United States. (In Amer. Hist. Assoc. Papers. v. 4, no. 2, p. 93–202. Apr. 1890)

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(5) ———— The first national scientific Congress (Washington, April, 1844) and its connection with the organization of the American Association. (In Amer. Assoc. Adv. Sc. Salem, July, 1892. Proc. for 1891. v. 40, p. 39–47)

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